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wireless communication apparatus in the second communication mode.

5. The apparatus according to claim 4, wherein said connecting means suspends communication in the first 5 communication mode and makes a connection to said other wireless communication apparatus in the second communication mode.

6. The apparatus according to claim 2, wherein said connecting means makes a connection to said other 10 wireless communication apparatus based upon a network identifier contained in the signal received by said receiving means.

7. (Amended) A wireless communication apparatus capable of wirelessly communicating with a wireless 15 communication apparatus directly, comprising:

transmitting means for transmitting a signal, which includes (i) information indicating whether a communication mode is in a first mode in which a communication is performed through a base station or a 20 second mode in which a communication is performed with a wireless communication terminal directly and (ii) an identifier for identifying a network, to another wireless communication apparatus;

determining means for executing processing, which 25 is for determining a function that is executable with said other wireless communication apparatus, if a

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connection to said other wireless communication apparatus has been made in response to the signal; and data transmitting means for transmitting data to said other wireless communication apparatus in accordance with the determination made by said determination means.

5 8. The apparatus according to claim 7, further comprising picture taking means for taking a picture optically as image data;

10 wherein said data transmitting means transmits the image data obtained by picture taking by said picture taking means.

9. The apparatus according to claim 7, further comprising display means for displaying another wireless communication apparatus, which has been determined to possess a desired function, in accordance with the determination made by said determination means;

15 20 wherein a direct connection is made to a wireless communication apparatus, which has been selected by a user, based upon the display presented by said display means, and data is transmitted by said data transmitting means.